

METHOD FOR FORMING SPACERS OF MICRO-DISPLAYS

ABSTRACT OF THE DISCLOSURE

5 A method for forming spacers in micro-displays to eliminate dark or
white spots is disclosed. The method includes the steps of (1) providing
a substrate for each of red, green and blue micro-displays with metallic
reflective pads formed on the substrate, the pads being spaced from each
other by non-reflective areas; (2) forming a coating of a transparent,
non-conductive material on the substrate and over the reflective pads; (3)
10 providing a mask associated with each substrate, each mask having a
number of shielded zones that are not corresponding in location to each
other; and (4) performing a lithographic operation on the transparent,
non-conductive coating of each substrate of step (2) by using the
associated mask of step (3) whereby portions of the transparent,
15 non-conductive material that are corresponding to the shielded zones of the
mask are left on the substrate, functioning as the spacers. The spacers of
the substrates are thus not corresponding to each other in location whereby
dark or white spots caused by superposition of images of the spacers of the
micro-displays are effectively eliminated.